

July 1964

TCS-7240/64

Copy 105

7 Pages

PHOTOGRAPHIC INTERPRETATION REPORT

ELEKTROSTAL HEAVY MACHINERY BUILDING PLANT AND NOGINSK STEEL PLANT, ELEKTROSTAL, USSR



CIA



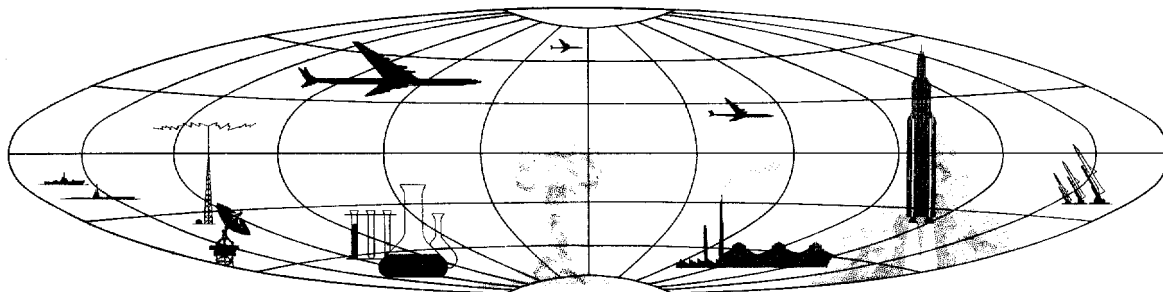
DIA

Handle Via **TALENT - KEYHOLE** Control Only

WARNING

This document contains classified information affecting the national security of the United States within the meaning of the espionage laws U. S. Code Title 18, Sections 793 and 794. The law prohibits its transmission or the revelation of its contents in any manner to an unauthorized person, as well as its use in any manner prejudicial to the safety or interest of the United States or for the benefit of any foreign government to the detriment of the United States. It is to be seen only by personnel especially indoctrinated and authorized to receive TALENT-KEYHOLE information. Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



ELEKTROSTAL HEAVY MACHINERY BUILDING PLANT AND NOGINSK STEEL PLANT, ELEKTROSTAL, USSR

SUMMARY

The Elektrostal Complex contains three separate industries: the Elektrostal Uranium Metal Plant Factory 12, the Elektrostal Heavy Machinery Building Plant, and the Noginsk Steel Plant. The uranium plant does not appear to be related to the other two plants or to the Soviet missile program. The machinery build-

ing plant and the steel plant are closely related, but no photographic evidence of involvement in the missile program is apparent. However, the possibility of missile association cannot be discounted completely because these industries are not specialized, and the available photographic coverage is of only fair quality.

INTRODUCTION

The Elektrostal Complex is located approximately 29 nautical miles (nm) east-northeast of Moscow, USSR, and 4 nm south of Noginsk

at 55-47N 38-25E (Figure 1). The three industrial facilities in the complex are the Elektrostal Uranium Metal Plant Factory 12, the

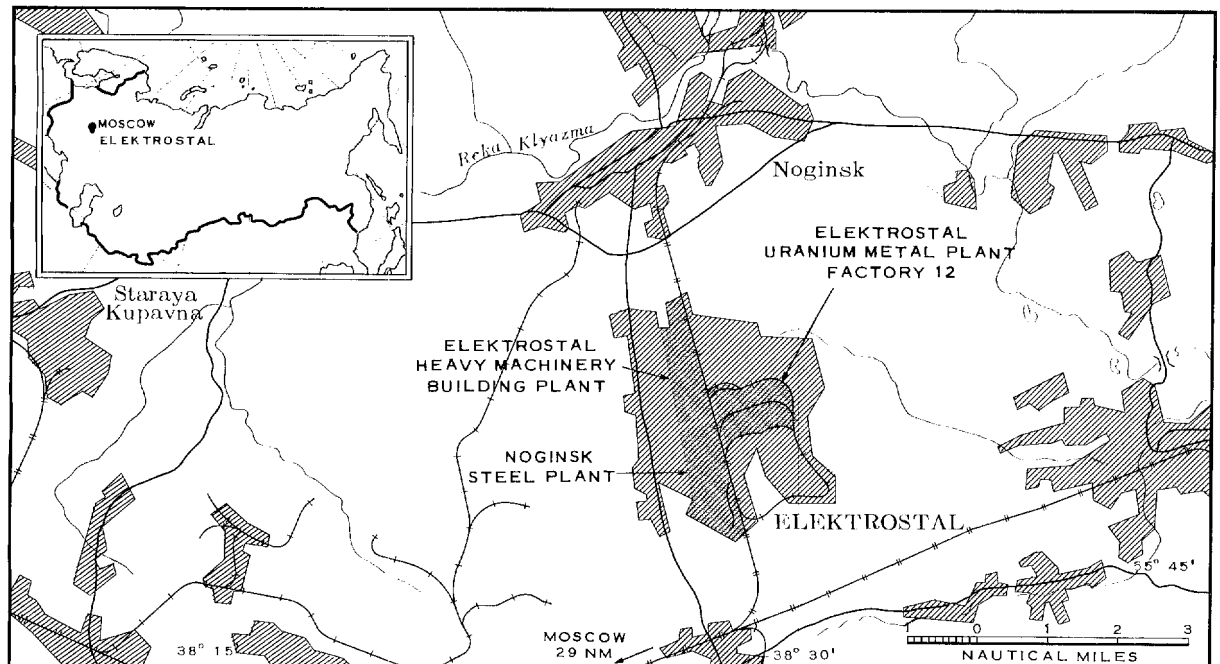


FIGURE 1. LOCATION MAP.

25X1D
25X1D

Elektrostal Heavy Machinery Building Plant, and the Noginsk Steel Plant.*

KEYHOLE photography of the complex has been obtained from several missions, the most recent in [REDACTED] but the quality of this coverage has been only fair. However, a comparison of the recent coverage with World War II photography reveals the extent of expansion of the plants since [REDACTED]

The uranium metal plant does not appear

*These facilities are listed in the Bombing Encyclopedia under the following numbers and designations: BE No [REDACTED] Noginsk Munitions Plant Elektrostal 12; [REDACTED] Elektrostal Heavy Machine Building Plant Novo Kramat; and [REDACTED] Elektrostal Metallurgical Plant Tevosyan.

to be in any way related to the other two facilities or to bear any relationship to the Soviet missile program. A recent report covers all other aspects of this plant in detail; 1/ therefore, it will not be discussed in this report.

The purpose of this report is to examine the other two plants to determine if any photographic evidence of missile-related activity exists and also to report any apparent relationships among the facilities, transportation nets, and functions.

The Noginsk Steel Plant is one of the major Soviet producers of electric steel and other special steel alloys, and the Elektrostal Heavy Machinery Building Plant serves as the steel

Table 1. Facilities of Elektrostal Heavy Machinery Building Plant and Noginsk Steel Plant (Items are keyed to Figure 2)

Item	Description	Dimensions** (ft)
1	Transformer substation and switching yard	620 x 400
2	Machine shop	350 x 110
3	Foundry and press; irregular	main section 355 x 190
4	Forge shop and storage; E-shaped	a 525 x 75 b 620 x 60 c 515 x 115 d 540 x 85
5	Machine shop; irregular	575 x 220
6	Metal working machine shop; T-shaped	bar 325 x 105 stem 530 x 220
7	Fabrication building	550 x 320
8	Machine/workshop	545 x 95
9	Machine/workshop	530 x 140
10	Workshop	305 x 170
11	Probable steel products mill; U-shaped	a 450 x 105 b 440 x 80 c 285 x 115
12	Fabrication building	350 x 345
13	Possible fabrication building	520 x 180
14	Probable mill; product unknown	605 x 320
15	Rolling mill and soaking pit; irregular	a 575 x 140 b 550 x 220
16	Open hearth furnace building	885 x 185
17	Open hearth furnace building	865 x 210
18	Probable scrap storage building	505 x 140
19	Electric furnace building	670 x 200
20	Machine shop	615 x 115
21	Possible transformer yard	180 x 180
22	Possible storage/support building	610 x 110
23	Possible storage/support building	385 x 160
24	Possible storage/support building	370 x 175
25	Suspect electric furnace building	785 x 215
26	Suspect transformer yard	-----

**Dimensions of irregularly shaped buildings are greatest length and width.

25X1D TCS-7240/64

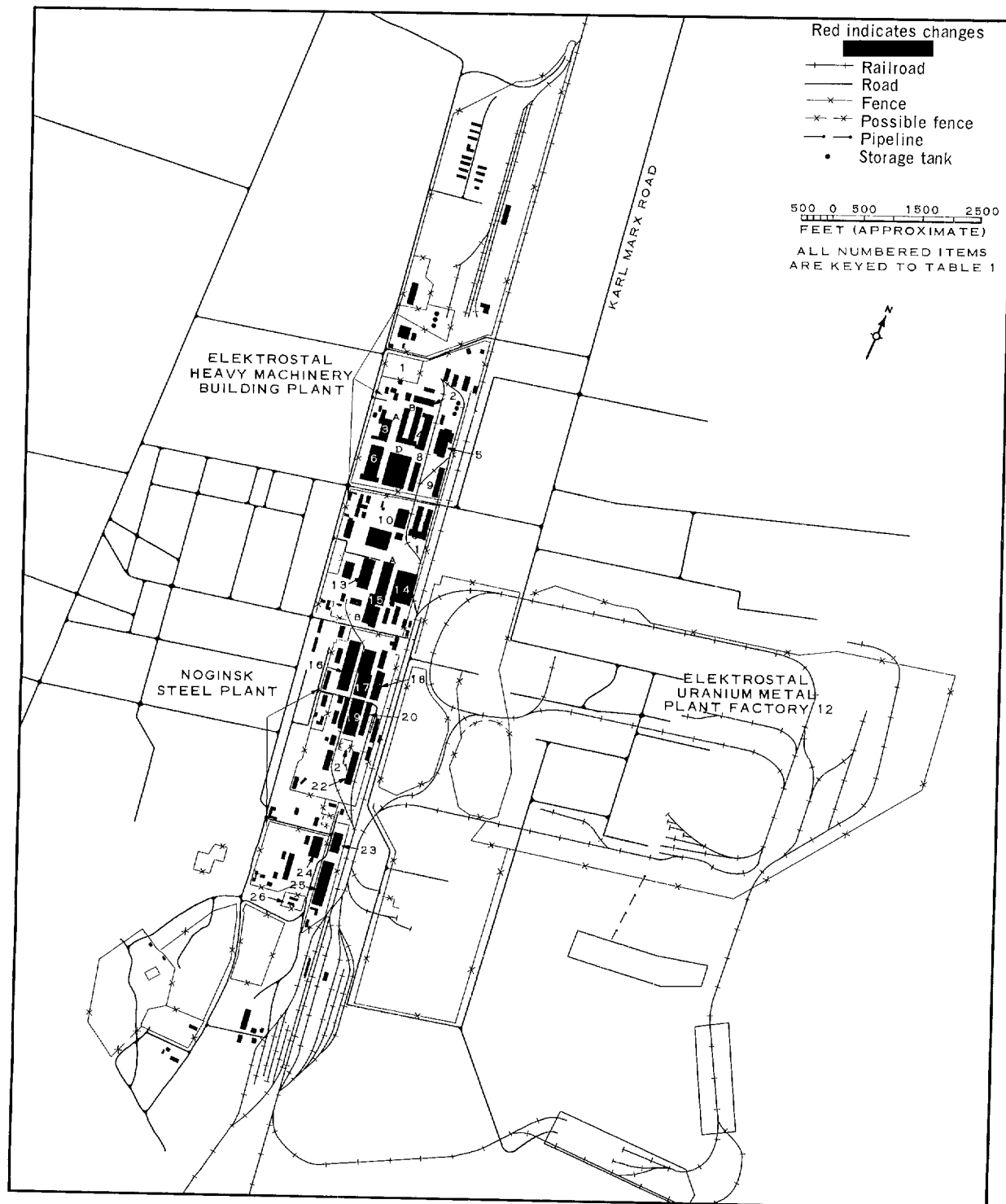


FIGURE 2. ELEKTROSTAL HEAVY MACHINERY BUILDING PLANT AND NOGINSK STEEL PLANT, ELEKTROSTAL, USSR. NPIC J-1717 (7/64)

fabrication section for the Noginsk Steel Plant. 2/ Detailed information about these plants can be found in two tables. Table 1, which is keyed to Figure 2, includes functions and dimensions of individual buildings; Table 2 is keyed to Figure 3 and describes the support facilities.

As reported previously, 3/ the two plants

share road and rail facilities. Normal industrial security measures of fences and gatehouses are discernible. In addition to the physical proximity of the two plants, close relationships can be observed in the processing facilities and support areas.

25X1D

ELEKTROSTAL HEAVY MACHINERY BUILDING PLANT

The Elektrostal Heavy Machinery Building Plant fabricates machinery and produces rolled steel from ingots from the Noginsk Steel Plant. The production area of approximately 5,100 by 1,700 feet contains 14 major buildings and is directly north of the steel plant (Figure 2). A storage/support area measuring approximately

5,225 by 1,700 feet is located north of the production area and serves as the transshipment area for finished products (Figure 3).

This plant has undergone considerable expansion [REDACTED] in the total number of buildings. The major additions are: a new section of the rolling mill (item 15, Figure 2), expan-

Table 2. Description of Support Areas and Facilities (Items are keyed to Figure 3)

Item	Description	Dimensions (ft)
A	Storage area; 12 buildings; road served	average 160 x 50
B	Open storage and transshipping area; road and rail served	-----
C	Storage/support building; secured and possibly rail served	425 x 120
D	3 oil storage tanks	100 diam
E	Storage/support area; 3 buildings	average 200 x 55
F	3 oil storage tanks	75 diam
G	Administration/support area	
	T-shaped building	bar 450 x 75 stem 95 x 75
	L-shaped building	base 100 x 50 leg 200 x 50
	2 buildings	average 120 x 35
H	Administration/support area	
	L-shaped building	base 70 x 60 leg 190 x 20
	4 buildings	240 x 45 340 x 50 400 x 95 330 x 135
I	Probable administration building; T-shaped	bar 250 x 55 stem 60 x 50
J	Storage area; possibly contains building materials	-----
K	Storage area; possibly contains building materials	-----
L	Unidentified area; possibly new construction	-----
M	Scrap and coal storage; rail yard	-----
N	Slag and ash dump	-----

TCS-7240/64



FIGURE 3. ELEKTROSTAL HEAVY MACHINERY BUILDING PLANT AND NOGINSK STEEL PLANT, ELEKTROSTAL, USSR, (Lettered items, which are keyed to Table 2, indicate support areas for the plants.)

NPIC J-1718 (7/64)

25X1D

25X1D

sion of the forge building (item 4), four fabrication/mill buildings (items 7, 11, 12, and 13), and several machine/workshop buildings.

The addition of these structures greatly increases the production capacity of the plant and gives it at least a potential capability of

producing metal products utilized in the missile program. Current involvement in the missile program cannot be determined from photographic evidence, although it is considered to be easily within the realm of possibility.

NOGINSK STEEL PLANT

The Noginsk Steel Plant in Elektrostal is situated immediately south of the Heavy Machinery Building Plant (Figures 2 and 3). The plant production area measures approximately 5,100 by 1,600 feet and contains nine major buildings. Immediately south of the production area is a large area utilized for storage and other service functions.

25X1D [REDACTED] the plant has undergone only relatively minor expansion in total number of buildings; however, those structures which have been added could significantly affect production. These additions include: an extension on one of the open hearth furnace buildings (item 17, Figure 2) and the construction of a suspect electric furnace building (item 25) and two large possible storage/support buildings (items 23

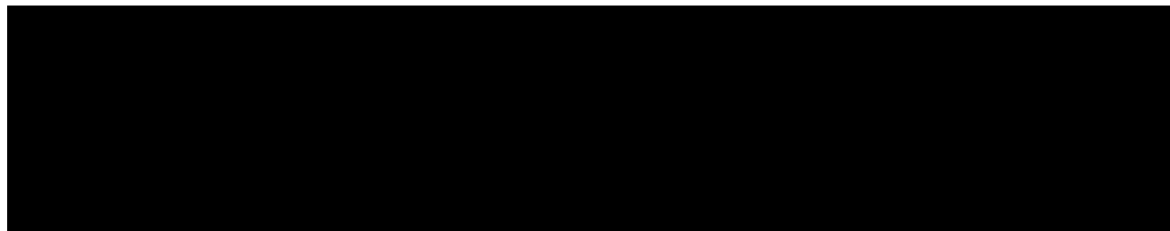
and 24) in the south end of the plant. Further expansion toward the south may be forthcoming; open storage of possible building materials is apparent in this area (Figure 3), and the density of existing facilities in all other areas would confine any expansion to the south end.

The functions of the buildings in the plant as indicated on Table 1 are general in nature. No evidence of a specific relationship to the missile program, such as production of special alloys, can be detected on available photography because the scale and quality of the coverage do not permit the interpretation of any specialized facilities or security measures. Such specialized production probably could be accomplished by using the facilities now present in the plant with only minor modifications.

REFERENCES

PHOTOGRAPHY

25X1D



MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0167-5HL, 2d ed, Apr 63, scale 1:200,000 (SECRET)

ACIC. US Target Mosaic, Series 10, Sheet 0167-0020-10MA, 1st ed, Dec 51, scale 1:10,000 (SECRET)

DOCUMENTS

1. NPIC. R-247/64, *Uranium Metal Plant, Elektrostal, USSR*, Apr 64 (TOP SECRET CHESS RUFF)
2. USAF. TIS 0167-9972, *Noginsk Target Complex, USSR*, Jun 54 (SECRET)
3. NPIC. R-345/64, *Elektrostal Complex, USSR*, May 64 (TOP SECRET RUFF)

REQUIREMENT

CIA. ORR/C-RR4-81,355

NPIC PROJECT

N-528/64

TOP SECRET

Approved For Release 2000/05/09 : CIA-RDP78B04560A002600010062-2

Approved For Release 2000/05/09 : CIA-RDP78B04560A002600010062-2

TOP SECRET